

CLAIMS

CLAIM 1. A device for desensitization or sensitization of magnetic security markers comprising

- a) electromagnetic transducer means which when powered by DC current will desensitize said markers that are moved past said transducers, and when powered by AC current will sensitize said markers that are moved past said transducers;
- b) electronic means to power said transducer with DC or AC current; and
- c) switch means to shift the power to the transducer means between AC and DC.

CLAIM 2. The device of CLAIM 1 wherein the transducer means is comprised of an electromagnet and a pair of intensifier blocks that focus its flux between the pair of intensifier blocks.

CLAIM 3. The device of CLAIM 2 wherein said electromagnet is comprised of two (2) electromagnetic coils and a core.

CLAIM 4. The device of CLAIM 3 wherein the core is comprised of sheets of .012" thick 3% grain oriented silicon sulfide transformer steel laminated together.

CLAIM 5. The device of CLAIM 4 wherein the intensifier blocks comprised of 14 mil transformer steel that are laminated together.

CLAIM 6. The device of CLAIM 1 wherein the electronic transducer means present a flux having a depth of 2 inches and a width equal to the width of the transducer.

CLAIM 7. The method of desensitizing or sensitizing magnetic security marker, attached to books or videos, by an electromagnetic transducer workstation comprising the steps of:

- a) switching the power to the transducer to direct current;
- b) the movement of the marker in translational movement across the face of the workstation and the transducer and its emitted flux to desensitize the marker;
- c) Switching the power to the transducer to alternating current; and
- d) Movement of the marker attached to a book or video in translational

motion against the face of the workstation and transducer and its emitted flux to sensitize the markers.

CLAIM 8. The method of CLAIM 7 wherein the flux emitted by the transducer extends only two (2) inches from the transducer so that it does not affect videos.

CLAIM 9. An apparatus or workstation for desensitizing or sensitizing electromagnetic markers attached to books or videos comprising:

- a) housing comprised of a base, a cover, and a magnet housing;
- b) an electromagnetic transducer secured to the base and the magnet housing in position to emit electromagnetic flux through the magnet housing; and
- c) electronic circuitry to power the transducer with direct current or alternating current and to switch between DC and AC wherein books or videos are moved in sliding contact with the magnet housing in translational motion through the flux emitted from the transducer so that the markers are desensitized when the transducer is powered with DC current and sensitized when the markers are powered with AC current.

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